



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/pera

Montag Windows & Doors, LLC
1249 Stirling Road, Suite 14
Dania Beach, FL 33004

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "Tilt & Turn" Inswing Wood Casement Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. **W08-70**, titled "Wood Frame Tilt & Turn Window (LMI)", sheets 1 through 10 of 10, dated 07/28/08 with revision A dated 04/20/12, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name:

Fensterfabrik Montag, GmbH - Biberach-Mettenburg, Germany, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official. This NOA **revises NOA# 08-1224.17** and consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P.E.**



J. Gascon
7/13/12

NOA No. 12-0604.10
Expiration Date: May 20, 2014
Approval Date: July 26, 2012
Page 1

Montag Windows & Doors, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under previous NOA# 08-1224.17)
2. Drawing No. **W08-70**, titled "Wood Frame Tilt & Turn Window (LMI)", sheets 1 through 10 of 10, dated 07/28/08 with revision A dated 04/20/12, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
along with marked-up drawings and installation diagram of wood tilt & turn, casement windows, prepared by American Test Lab of South Florida, Test Report No. **ATLSF-1004.01-07**, dated 09/06/08, signed and sealed by William R. Mehner, P.E.
(Submitted under previous NOA# 08-1224.17)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis complying with FBC-2010, prepared by Al-Farooq Corporation, dated 04/04/12, signed and sealed by Javad Ahmad, P.E.
2. Glazing complies with ASTM E1300-04.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA)

E. MATERIAL CERTIFICATIONS

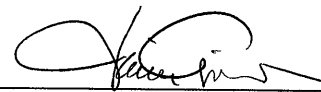
1. Notice of Acceptance No. **11-0624.02** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont SentryGlas® Interlayer**" dated 08/25/11, expiring on 01/14/17.

F. STATEMENTS

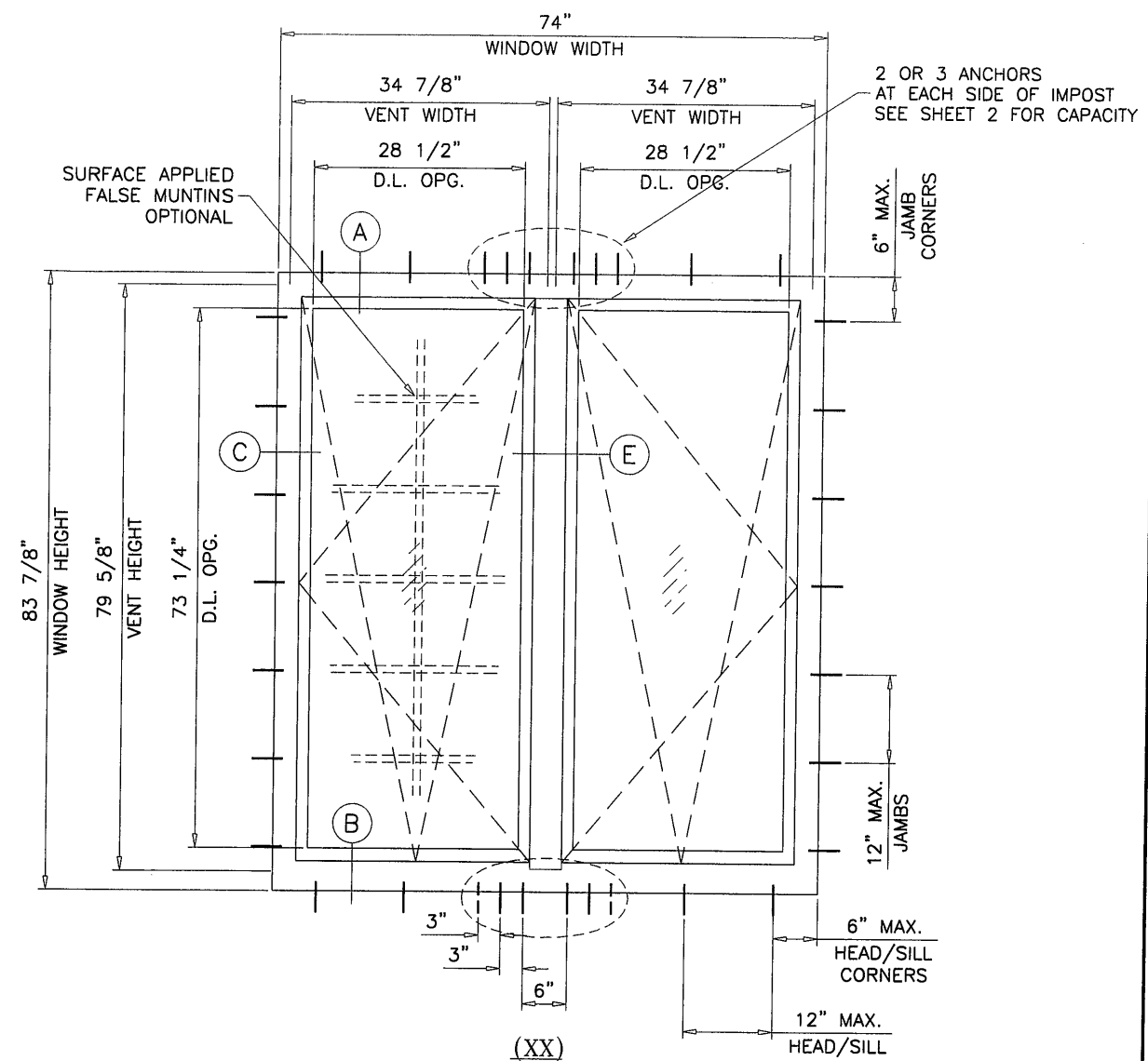
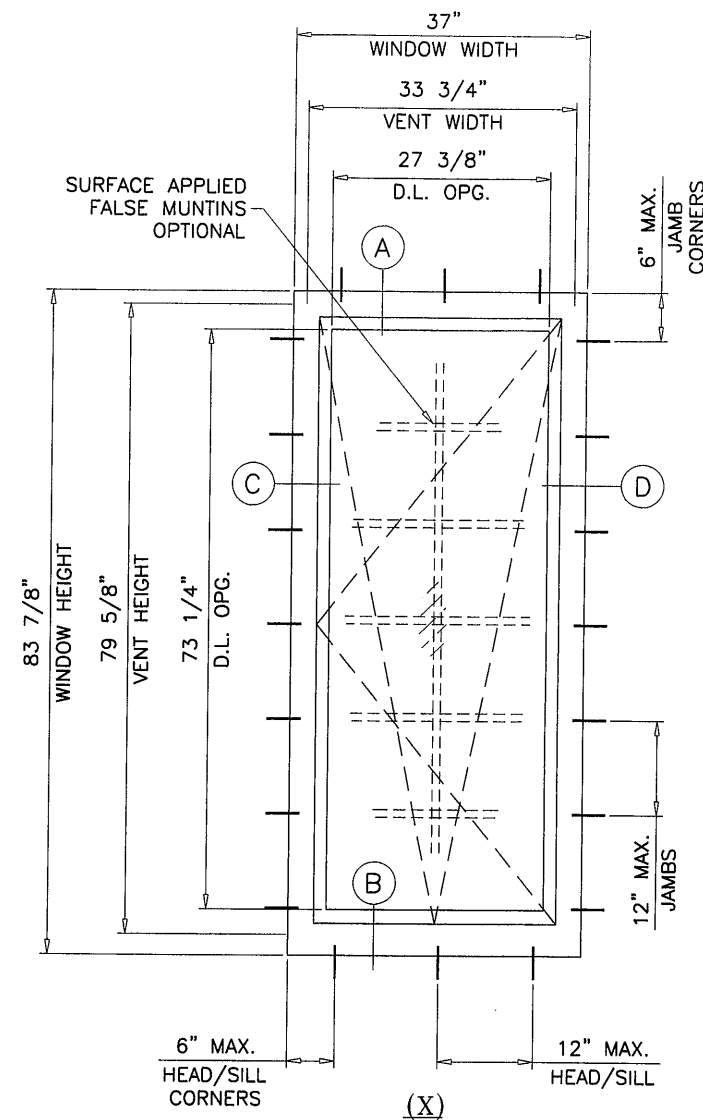
1. Statement letter of conformance, complying with FBC 2010, dated April 17, 2012, signed and sealed by Javad Ahmad, P.E.
2. Statement letter of no financial interest, dated April 17, 2012, signed and sealed by Javad Ahmad, P.E.
3. Distributor Agreement document in conformance to PERA guidelines signed by Gerhard Lang (Manufacturer) and Mitch Lewandowski (Distributor).
(Submitted under previous NOA# 08-1224.17)

G. OTHERS

1. Notice of Acceptance No. **08-1119.04**, issued to Montag Windows & Doors, LLC, for their "Tilt & Turn" Inswing Wood Casement Window – L.M.I., approved on 05/20/09 and expiring on 05/20/14.



Jaime D. Gascon, P.E.
Product Control Section Supervisor
NOA No. 12-0604.10
Expiration Date: May 20, 2014
Approval Date: July 26, 2012



TYPICAL ELEVATIONS

WOOD FRAME TILT & TURN WINDOW

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE
COMBINATIONS OF TWO OR MORE UNITS.
LOWER DESIGN PRESSURE FROM WINDOWS OR SIDE BY SIDE
MULLION CHART WILL APPLY TO ENTIRE SYSTEM.
CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

DESIGN LOAD RATING FOR THESE WINDOWS TO BE AS PER CHARTS
SHOWN ON SHEET 2.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

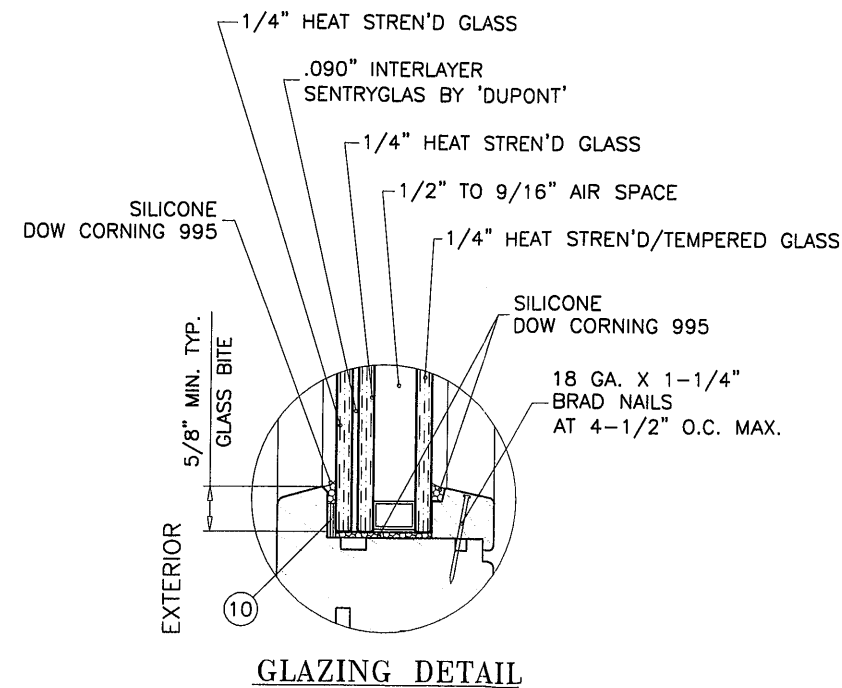
WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS
 EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BLDG. CODE SECTION 2003.8.4.



THESE WINDOWS ARE RATED FOR LARGE MISSILE IMPACT.
SHUTTERS ARE NOT REQUIRED.

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-0604.10
Expiration Date 5/20/2014
By G. J. [Signature]
Miami Dade Product Control

revisions:		
no	date	by description
A	04.20.12	UPDATED TO 2010 FBC

date: 07-28-08
scale: 1/2"=1'-0"
dr. by: HAMID
chk. by:

drawing no.
W08-70

sheet 1 of 10

a f c

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978

WOOD FRAME TILT & TURN WINDOW (L.M.I.)
MONTAG WINDOWS & DOORS, LLC.
1249 STIRLING ROAD, STE. 14
DANIA BEACH, FL 33004
TEL. (866) 562-1728 FAX. (866) 563-1728

COMP-ANL\W08-70MNA

DESIGN LOAD CAPACITY - PSF (SINGLE UNITS)			
WINDOW DIMS.		INSUL. LAM. GLASS	
WIDTH	HEIGHT	EXT. (+)	INT. (-)
18"	48" (4)	65.0	85.0
24"		65.0	85.0
30"		65.0	85.0
36"		65.0	85.0
37"		65.0	85.0
18"	54" (5)	65.0	85.0
24"		65.0	85.0
30"		65.0	85.0
36"		65.0	85.0
37"		65.0	85.0
18"	60" (5)	65.0	85.0
24"		65.0	85.0
30"		65.0	85.0
36"		65.0	85.0
37"		65.0	85.0
18"	66" (6)	65.0	85.0
24"		65.0	85.0
30"		65.0	85.0
36"		65.0	85.0
37"		65.0	85.0
18"	72" (6)	65.0	85.0
24"		65.0	85.0
30"		65.0	85.0
36"		65.0	85.0
37"		65.0	85.0
18"	78" (7)	65.0	85.0
24"		65.0	85.0
30"		65.0	85.0
36"		65.0	85.0
37"		65.0	85.0
18"	84" (7)	65.0	85.0
24"		65.0	85.0
30"		65.0	85.0
36"		65.0	85.0
37"		65.0	85.0

DESIGN LOAD CAPACITY - PSF (DOUBLE UNITS)					
WINDOW DIMS.		IMPOST W/O EXTENSION		IMPOST W/ EXTENSION	
		2 ANCHORS @ EACH SIDE		3 ANCHORS @ EACH SIDE	
WIDTH	HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
36"	48" (4)	65.0	85.0	65.0	85.0
48"		65.0	85.0	65.0	85.0
60"		65.0	85.0	65.0	85.0
72"		65.0	85.0	65.0	85.0
74"		65.0	85.0	65.0	85.0
36"	54" (5)	65.0	85.0	65.0	85.0
48"		65.0	85.0	65.0	85.0
60"		65.0	85.0	65.0	85.0
72"		65.0	85.0	65.0	85.0
74"		65.0	85.0	65.0	85.0
36"	60" (5)	65.0	85.0	65.0	85.0
48"		65.0	85.0	65.0	85.0
60"		65.0	85.0	65.0	85.0
72"		65.0	85.0	65.0	85.0
74"		65.0	85.0	65.0	85.0
36"	66" (6)	65.0	85.0	65.0	85.0
48"		65.0	85.0	65.0	85.0
60"		65.0	85.0	65.0	85.0
72"		65.0	85.0	65.0	85.0
74"		65.0	85.0	65.0	85.0
36"	72" (6)	65.0	85.0	65.0	85.0
48"		65.0	85.0	65.0	85.0
60"		65.0	85.0	65.0	85.0
72"		65.0	85.0	65.0	85.0
74"		65.0	85.0	65.0	85.0
36"	78" (7)	65.0	85.0	65.0	85.0
48"		65.0	85.0	65.0	85.0
60"		65.0	85.0	65.0	85.0
72"		65.0	80.2	65.0	85.0
74"		65.0	78.7	65.0	85.0
36"	84" (7)	65.0	85.0	65.0	85.0
48"		65.0	85.0	65.0	85.0
60"		65.0	83.7	65.0	85.0
72"		65.0	72.9	65.0	85.0
74"		65.0	71.5	65.0	85.0

() = NO. OF ANCHORS PER JAMB

() = NO. OF ANCHORS PER JAMB

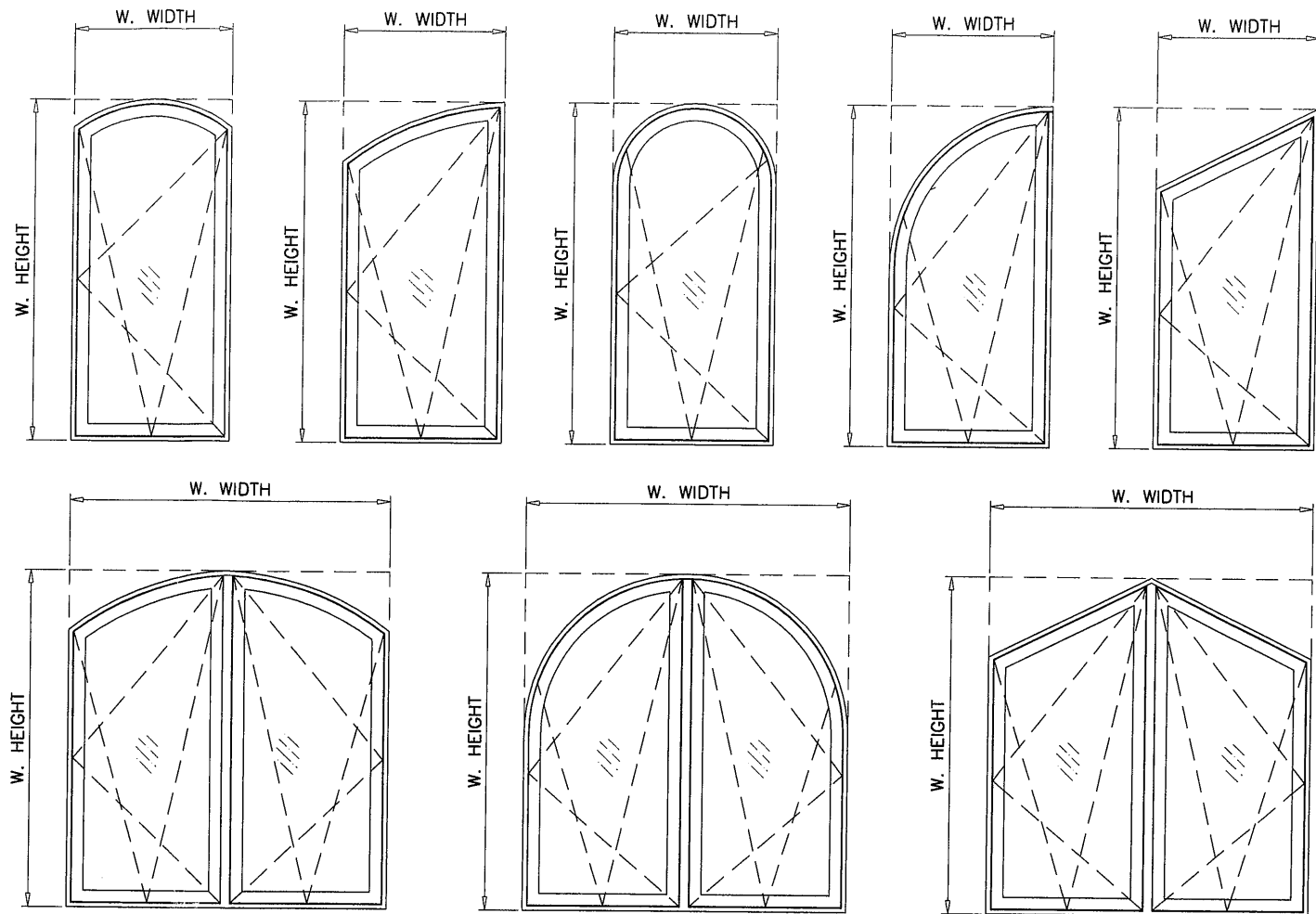
NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-04 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

LOCKS:

MACO TRICOAT 12 POINT LOCK SYSTEM WITH KEEPERS
SURFACE MOUNT ACTIVATING HANDLE AT LOCK STILES
SURFACE MOUNT METALLIC KEEPERS FACING LOCKS
EACH FASTENED WITH (3) #10 X 2-1/4" WOOD SCREWS
(2) KEEPERS AT HEAD
(2) KEEPERS AT SILL
(4) KEEPERS AT EACH JAMB

HINGES:

TILT AND TURN HINGE SYSTEM AT TOP AND BOTTOM OF VENT.



ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN ABOVE OR SIMILAR CAN BE
VERIFIED BY INSCRIBING WINDOW SHAPE WITHIN SQUARE OR RECTANGLE AS SHOWN
IN DOTTED LINES AND OBTAINING ALLOWABLE LOADS FROM THOSE SHAPES.

Engr: JAVAD AHMAD
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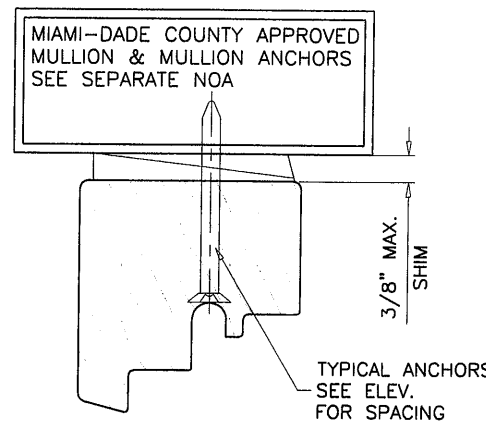
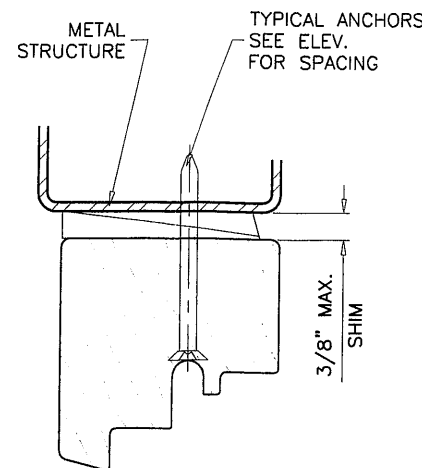
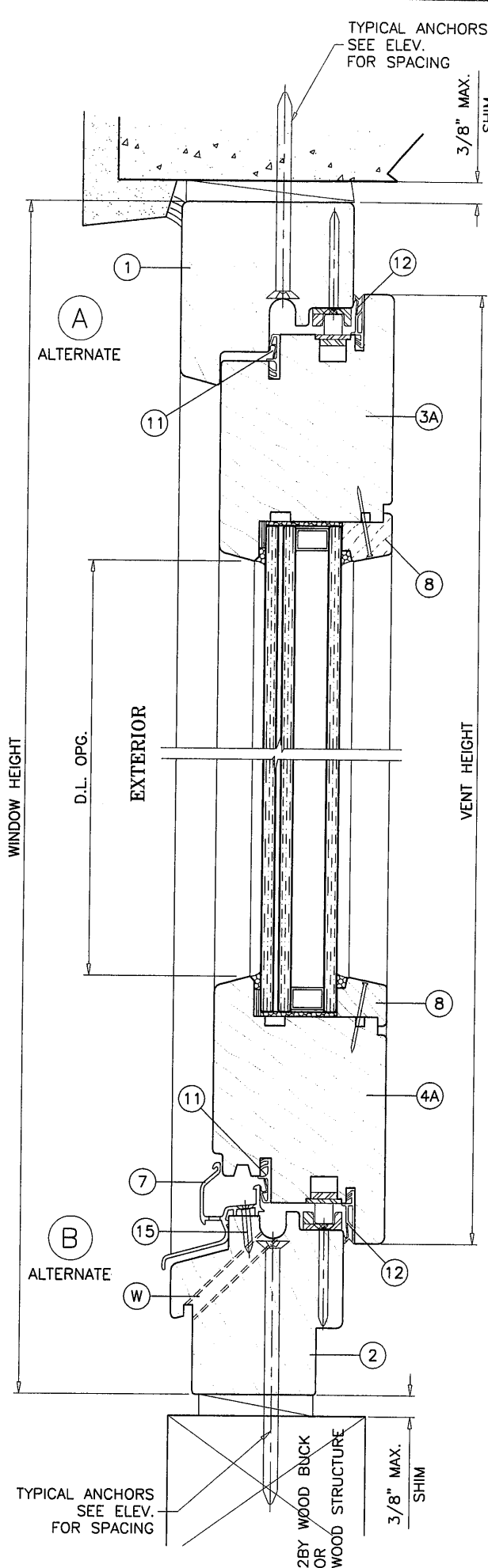
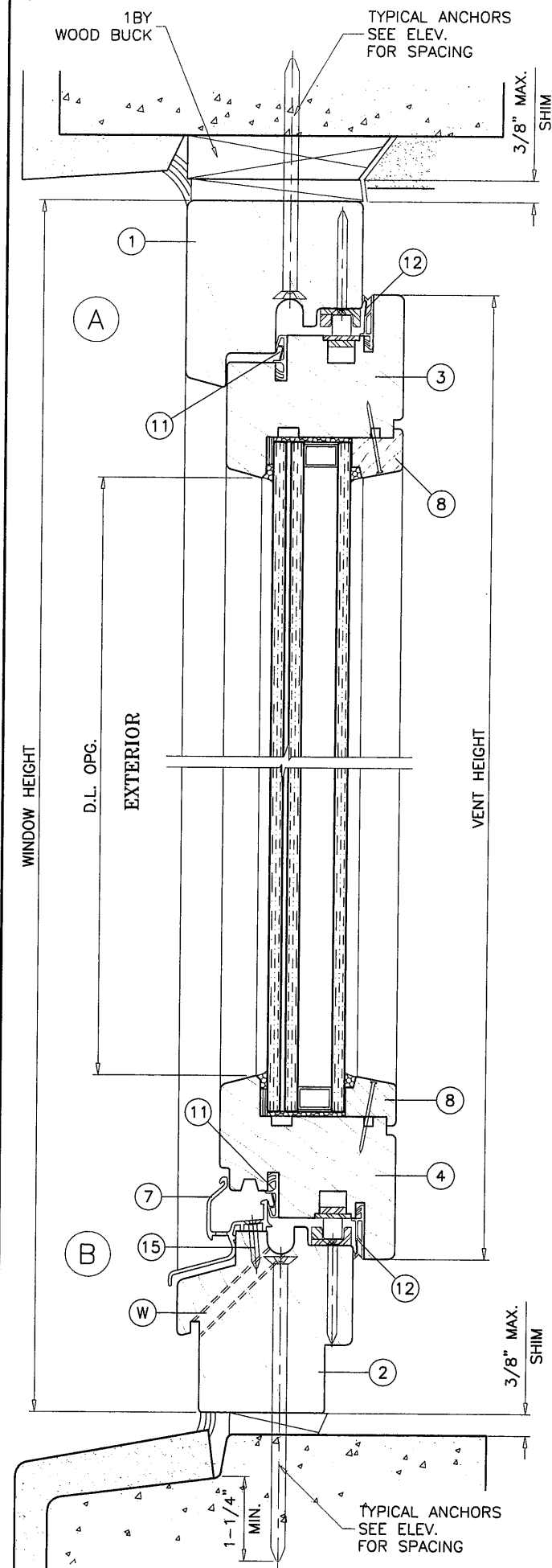
04/2012

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-0604-10
Expiration Date 5/20/2014
By *[Signature]*
Miami Dade Product Control

WOOD FRAME TILT & TURN WINDOW (L.M.I.)
MONTAG WINDOWS & DOORS, LLC.
1249 STIRLING ROAD, STE. 14
DANIA BEACH, FL 33004
TEL. (866) 562-1728 FAX. (866) 563-1728

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COMP - ANL \ W08-70MNA

revisions:	no.	date	by	description
	A	04-20-12		UPDATED TO 2010 FBC
date:	07-28-08	scale:	3/8" = 1"	
dr. by:	HAMID	chk. by:		
drawing no.	W08-70			
sheet	2 of 10			



TYPICAL ANCHORS: SEE ELEV. FOR SPACING
1/4" DIA. ULTRACON BY 'ELCO' ($F_u=177$ KSI, $F_y=155$ KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD
 THRU 1BY BUCKS INTO CONC. OR MASONRY
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY
 DIRECTLY INTO CONC. OR MASONRY
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY

#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
 INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK. = .090")
 INTO METAL STRUCTURES
 STEEL : 12 GA. MIN. ($F_y = 36$ KSI MIN.)
 ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE
 INTO CONCRETE AND MASONRY = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE $f'_c = 3000$ PSI MIN.
 MASONRY $f'_m = 1500$ PSI MIN.

WEEPHOLES:
 $W = 5/16"$ DIA. WEEP HOLES WITH 1/4" DIA. PLASTIC TUBE
 3 PER VENT AT 4" FROM EACH END AND AT CENTER

SEALANTS:
 WINDOW PERIMETER SEALED WITH SILICONE SEALANT.

WOOD BUCKS AND METAL STRUCTURE NOT BY MONTAG
 MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM
 AND TRANSFER THEM TO THE BUILDING STRUCTURE.

Engr: JAVAD AHMAD
 CIVIL
 FLA. PE # 70592
 C.A.N. 3538

MAY 04 2012

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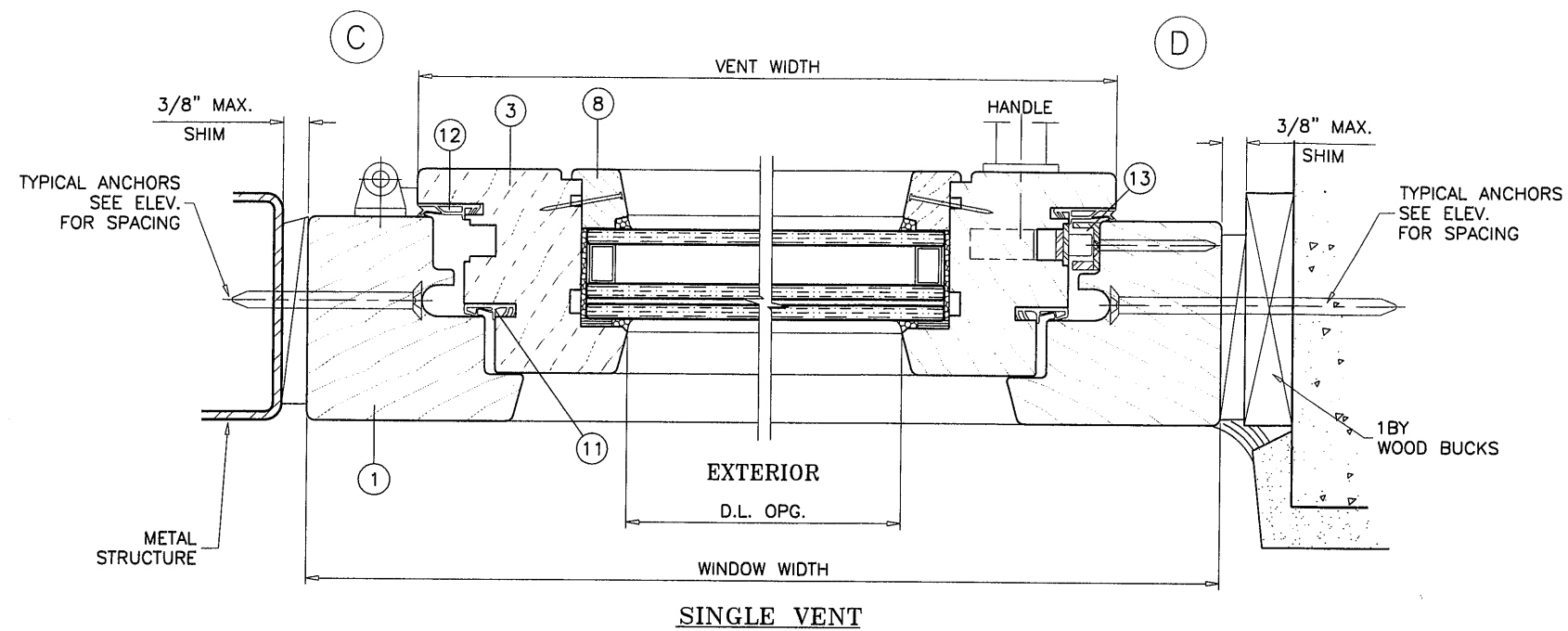
By *[Signature]*
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 1235 S.W. 87 AVE
 MIAMI, FLORIDA 33174
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 COMP - ANL \ W08 - 70MNA

WOOD FRAME TILT & TURN WINDOW (L.M.I.)
MONTAG WINDOWS & DOORS, LLC.
 1249 STIRLING ROAD, STE. 14
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revisions:		no	date	by	description
A	04-20-12				NO CHANGE THIS SHEET

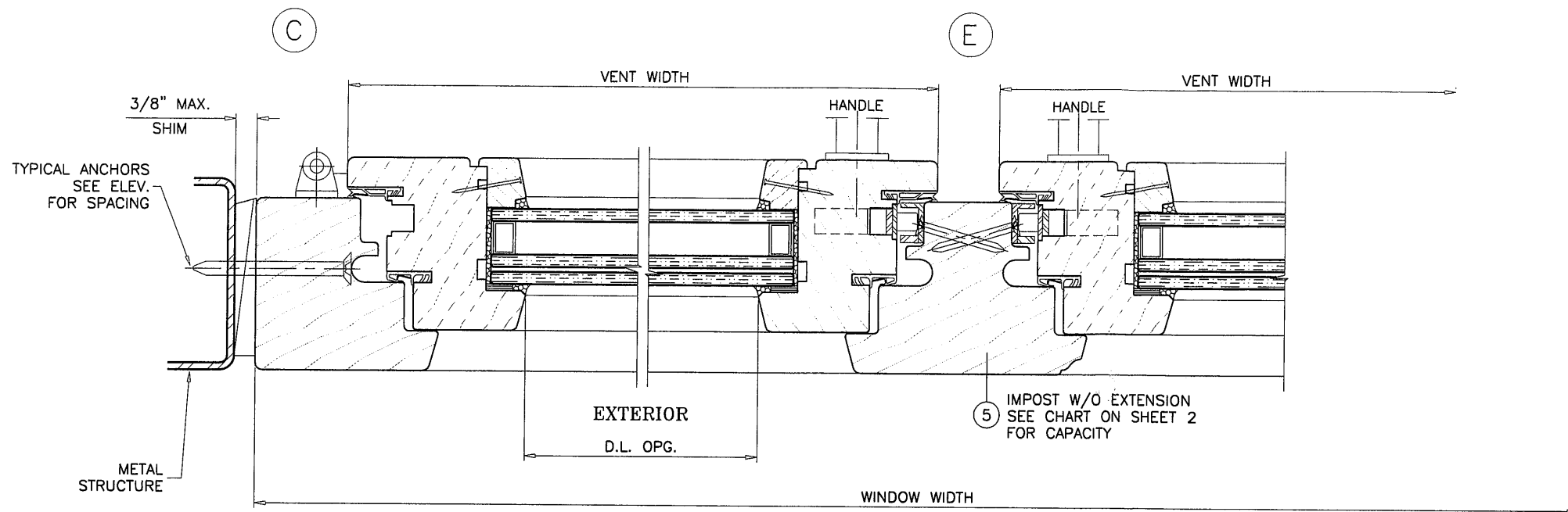
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drawing no. W08-70			
sheet 3 of 10			



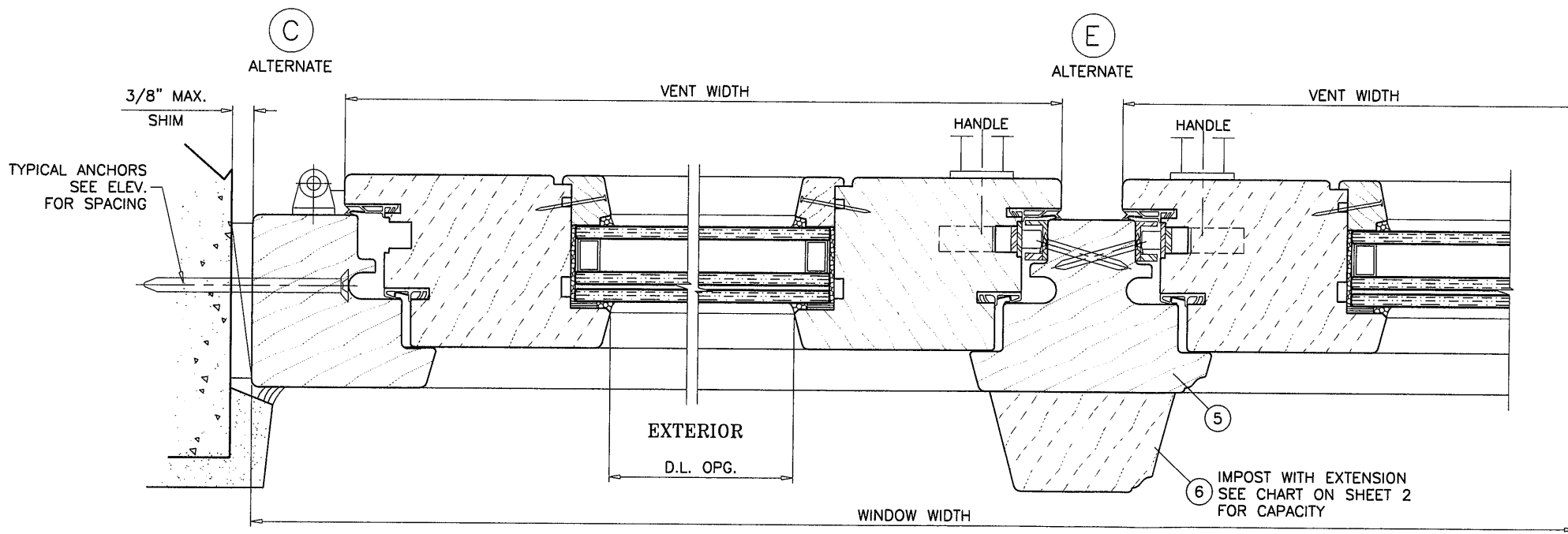
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MIAMI, FLORIDA 33174
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[illegible]



DUAL VENT



DUAL VENT

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

[Signature]
MAY 04 2012

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afC
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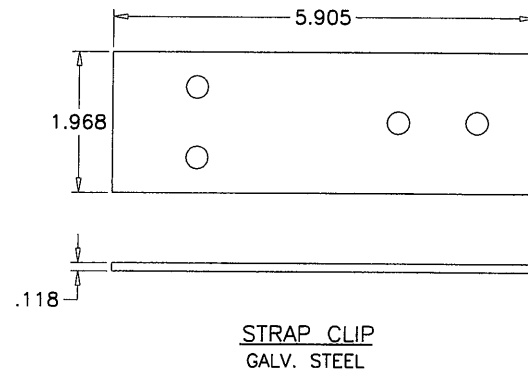
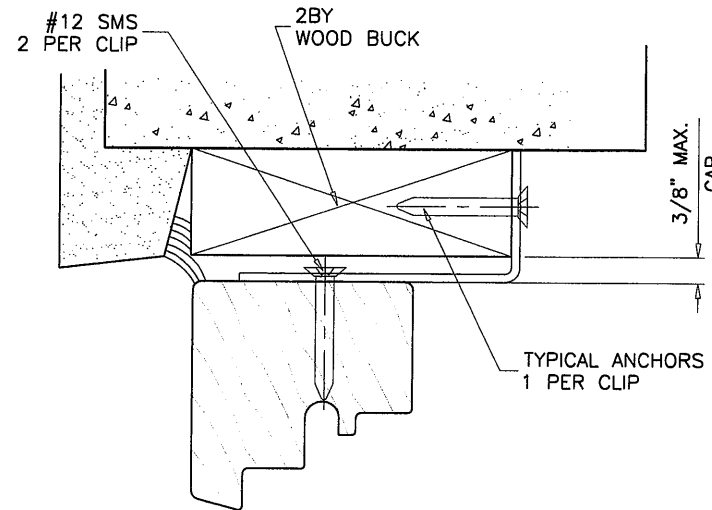
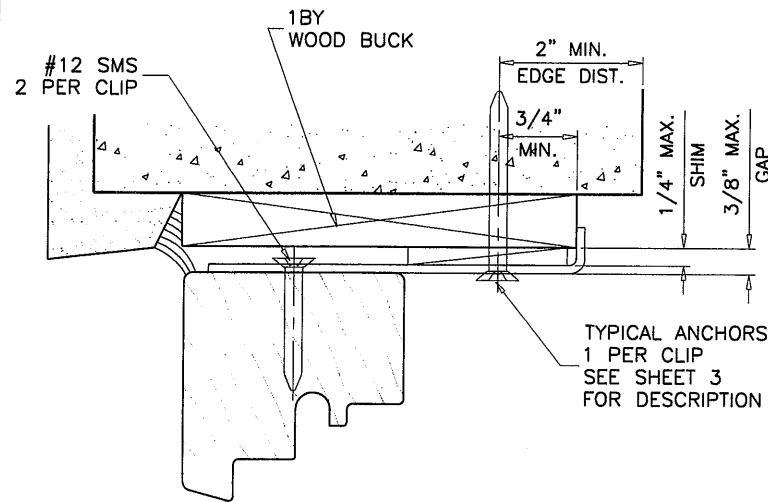
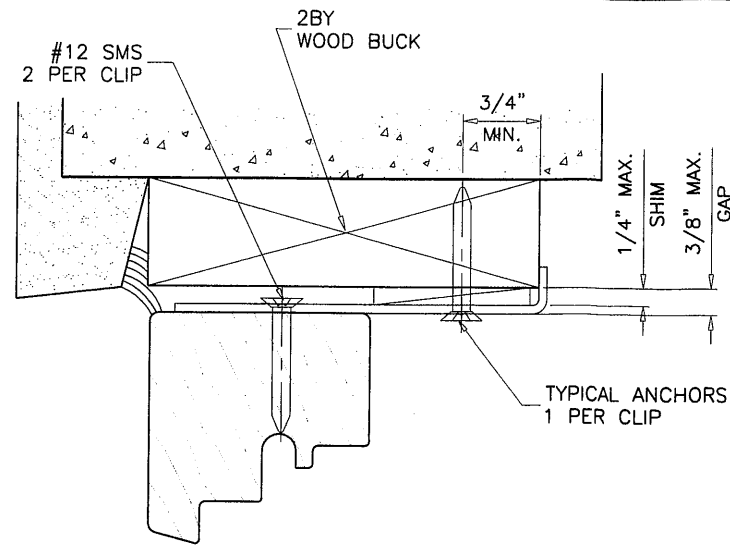
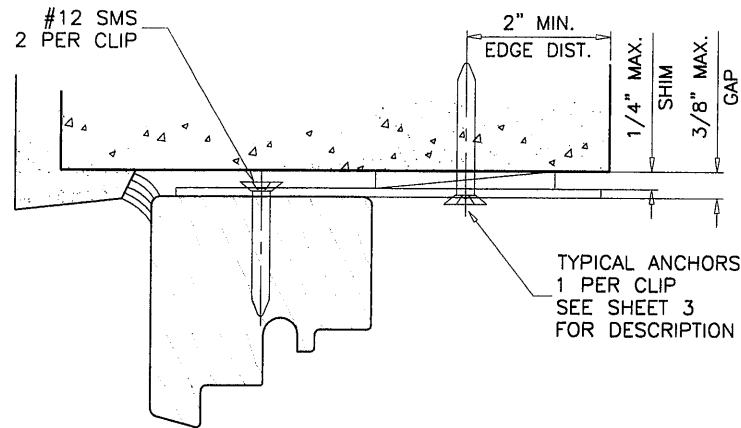
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revisions:

no	date	by	description
A	04.20.12		NO CHANGE THIS SHEET

date:	07-28-08
scale:	3/8" = 1"
dr. by:	HAMID
chk. by:	

drawing no.
W08-70
sheet 5 of 10



TYPICAL ANCHORS: SEE ELEV. FOR SPACING

ANCHORS THRU STRAP CLIPS INTO WOOD

#12 SMS

INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
1-1/2" MIN. PENETRATION INTO WOOD

ANCHOR EDGE DISTANCES

INTO WOOD STRUCTURE = 1/2" MIN.

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By: *[Signature]*
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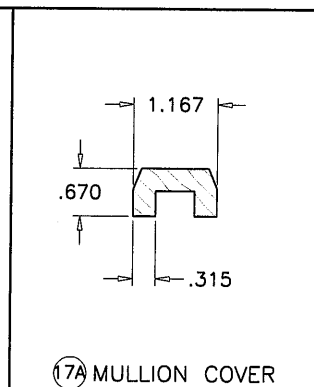
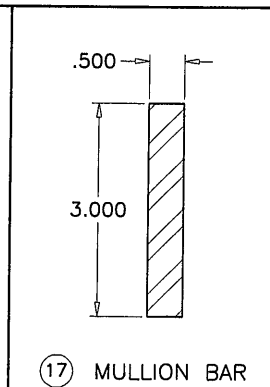
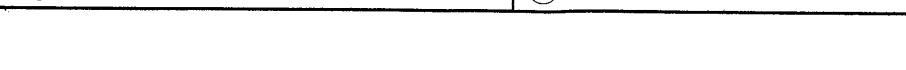
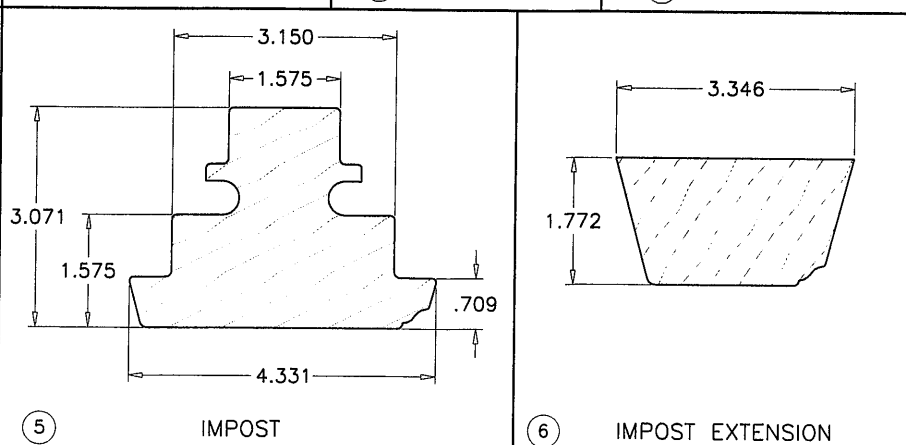
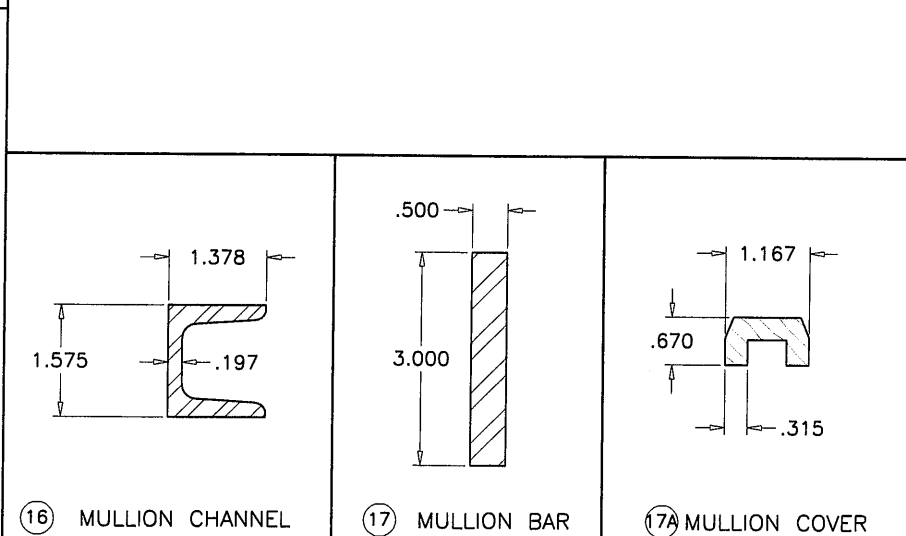
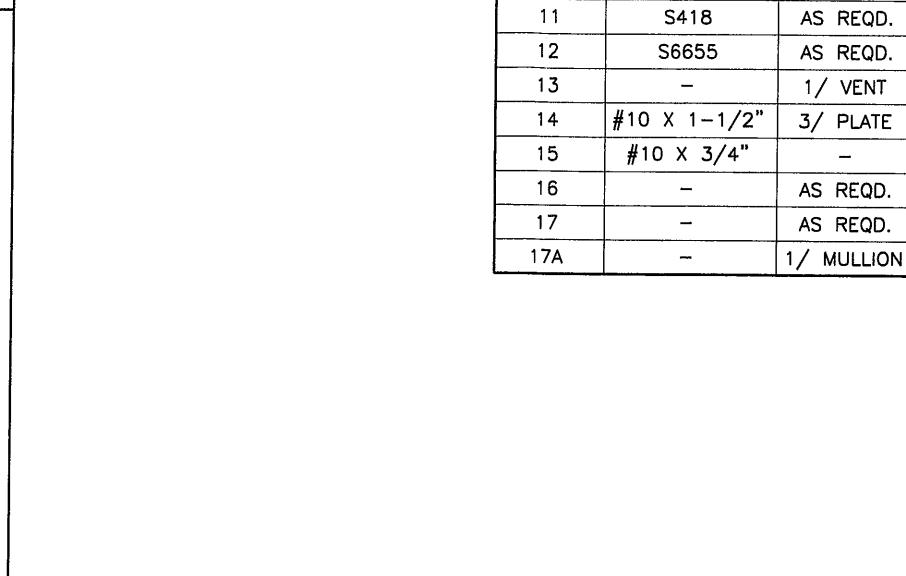
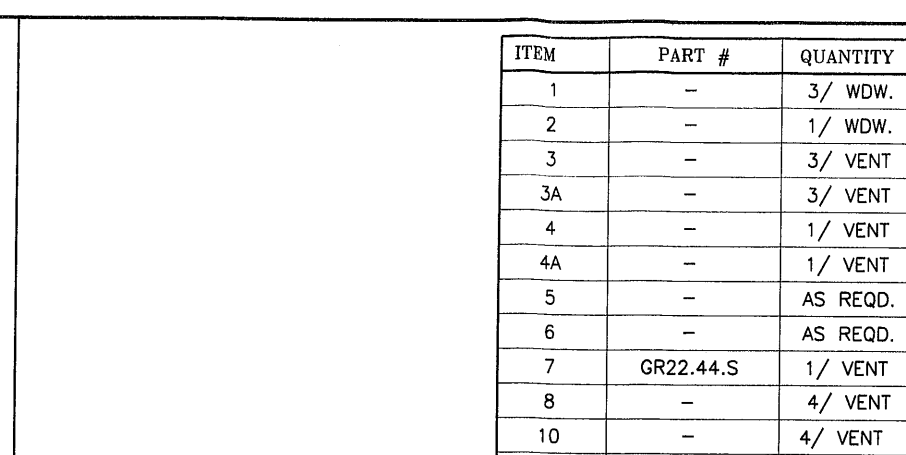
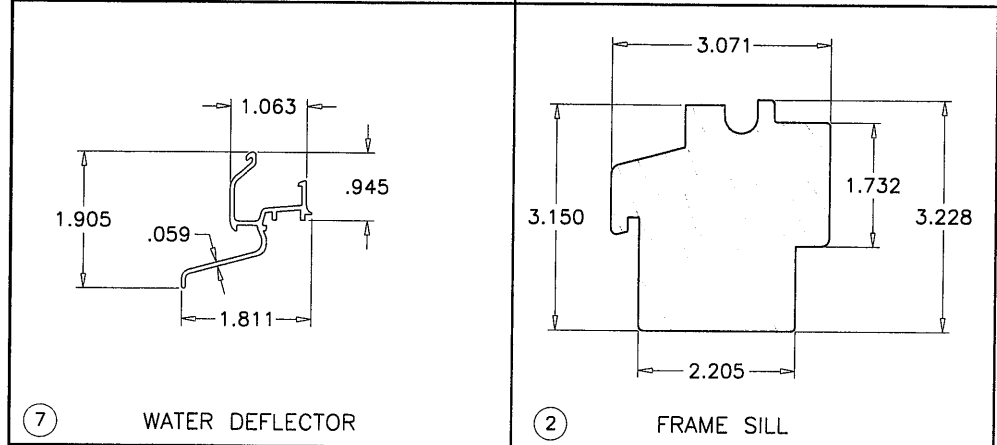
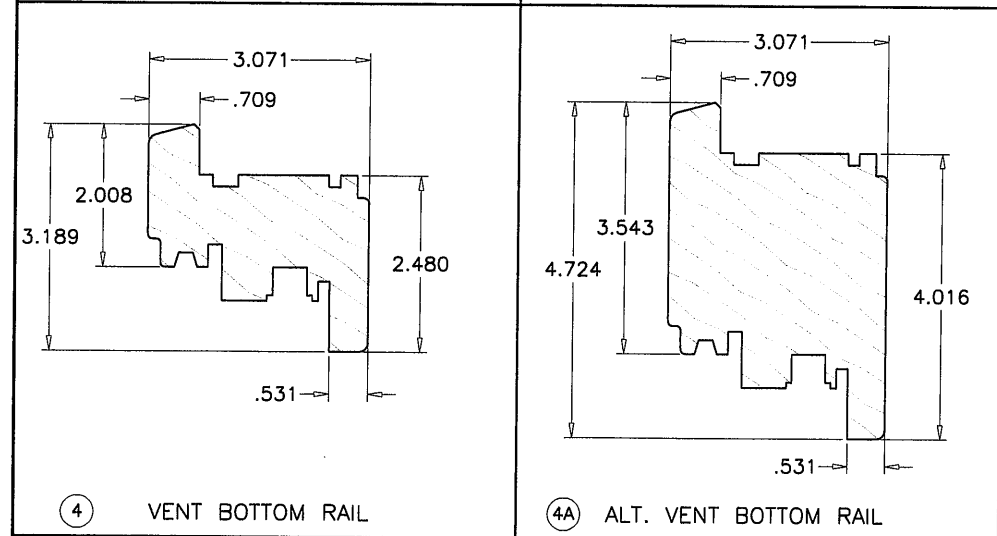
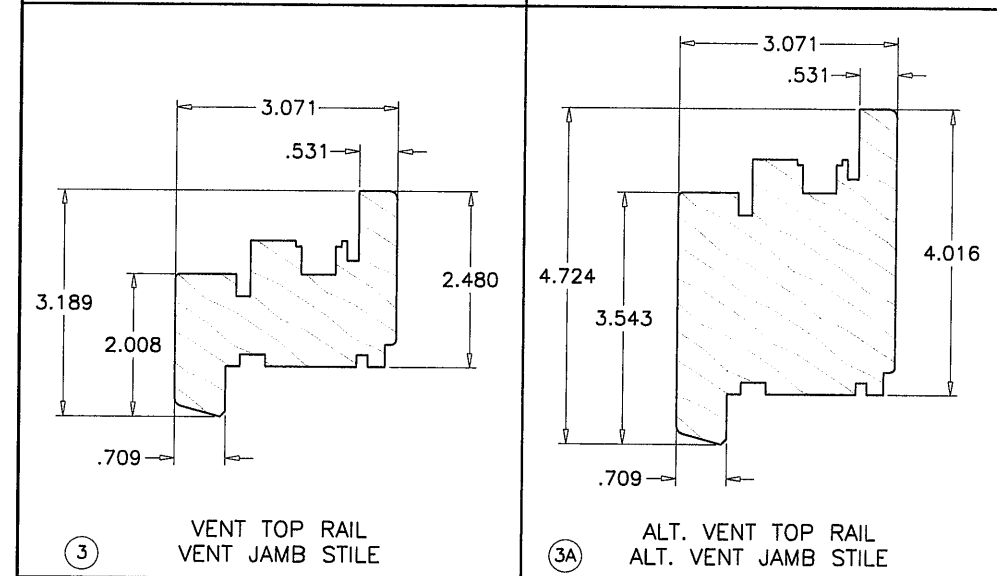
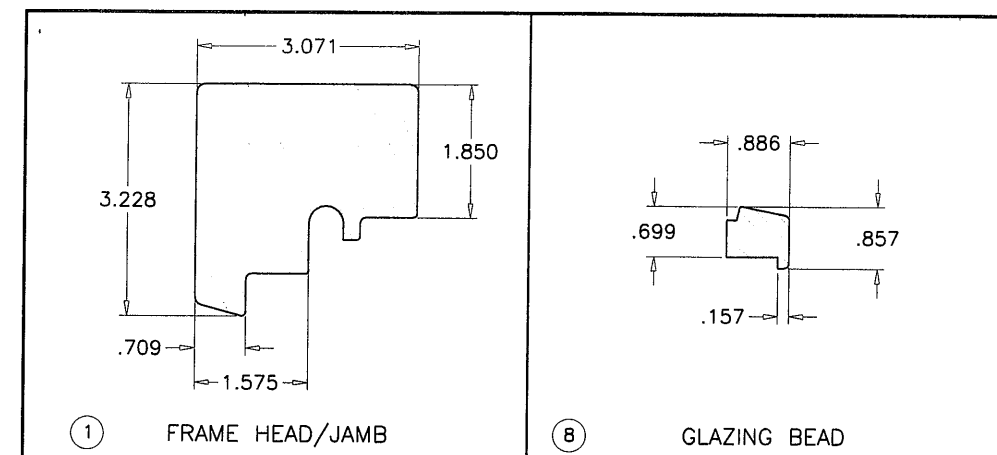
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no	date	by	description
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dr. by: HAMID
chk. by:

drawing no.
W08-70
sheet 6 of 10



ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	-	3/ WDW.	FRAME HEAD/JAMB	MERANTI WOOD	-
2	-	1/ WDW.	FRAME SILL	MERANTI WOOD	-
3	-	3/ VENT	TOP RAIL/JAMB STILE	MERANTI WOOD	-
3A	-	3/ VENT	ALTERNATE TOP RAIL/JAMB STILE	MERANTI WOOD	-
4	-	1/ VENT	VENT BOTTOM RAIL	MERANTI WOOD	-
4A	-	1/ VENT	ALT. VENT BOTTOM RAIL	MERANTI WOOD	-
5	-	AS REQD.	IMPOST	MERANTI WOOD	-
6	-	AS REQD.	IMPOST EXTENSION	MERANTI WOOD	-
7	GR22.44.S	1/ VENT	WATER DEFLECTOR	ALUMINUM	-
8	-	4/ VENT	GLAZING BEAD	MERANTI WOOD	-
10	-	4/ VENT	GLAZING TAPE	FOAM	-
11	S418	AS REQD.	EXTERIOR WEATHERSTRIPPING	THERMOPLASTIC	DEVENTER GMBH
12	S6655	AS REQD.	INTERIOR WEATHERSTRIPPING	THERMOPLASTIC	DEVENTER GMBH
13	-	1/ VENT	MULTI POINT LOCK SYSTEM	-	MACO TRICOAT
14	#10 X 1-1/2"	3/ PLATE	STRIKE PLATE INSTALLATION SCREWS	-	FH WOOD SCREWS
15	#10 X 3/4"	-	WATER DEFLECTOR SCREWS	-	FH WOOD SCREWS
16	-	AS REQD.	MULLION CHANNEL	GALV. STEEL	-
17	-	AS REQD.	1/2" X 3" MULLION BAR	GALV. STEEL	-
17A	-	1/ MULLION	MULLION COVER	MERANTI WOOD	-

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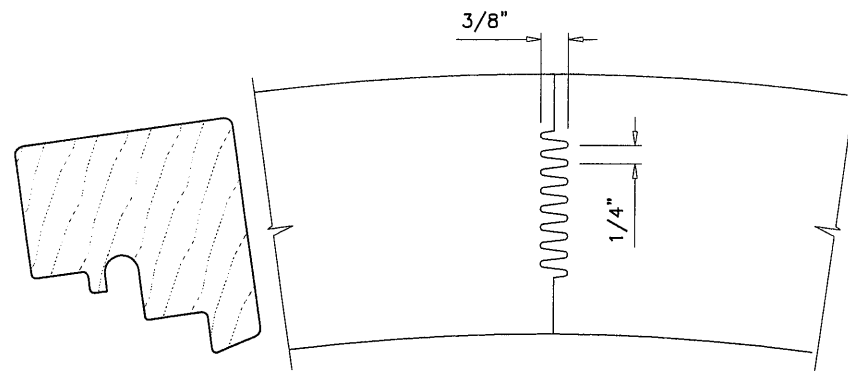
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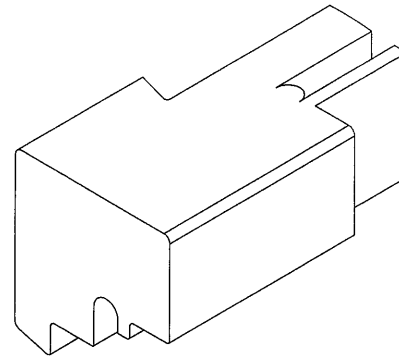
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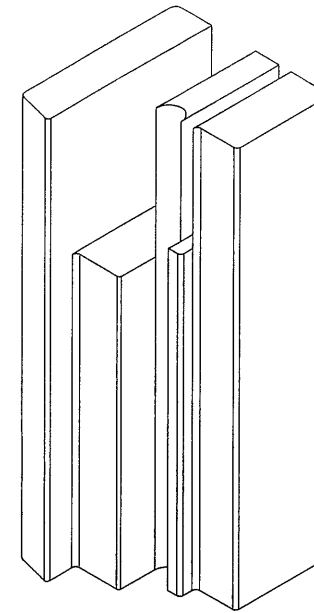
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chk. by:				
drawing no.	W08-70			
sheet	7 of 10			



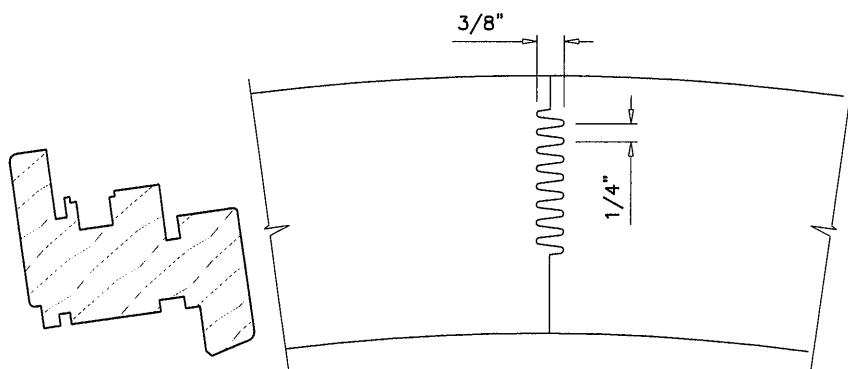
CIRCULAR WINDOWS
FINGER JOINT



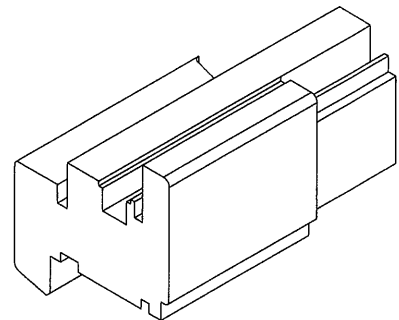
RECT. OR SQUARE WINDOWS
MORTISE AND TENON JOINT



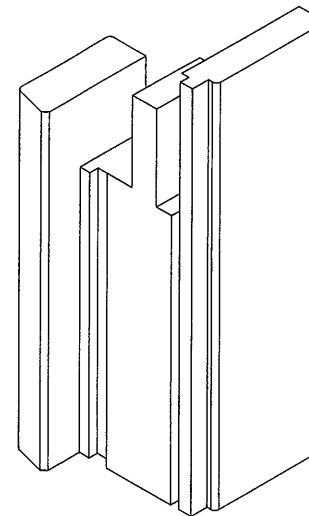
FRAME CORNERS



CIRCULAR WINDOWS
FINGER JOINT



RECT. OR SQUARE WINDOWS
MORTISE AND TENON JOINT



VENT CORNERS

FRAME CORNERS SEALED/GLUED WITH
WATER PROOF ADHESIVE

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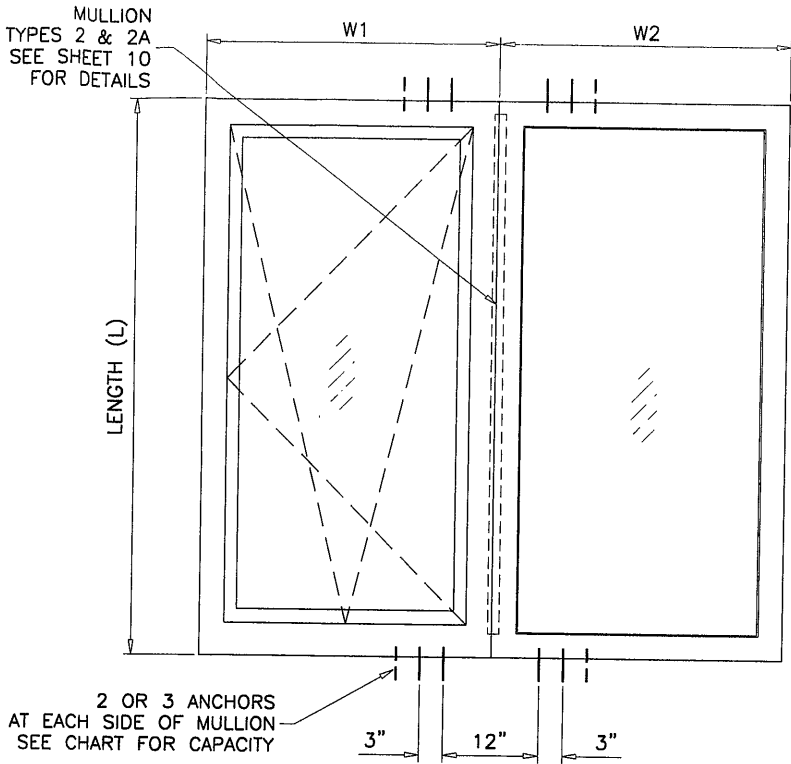
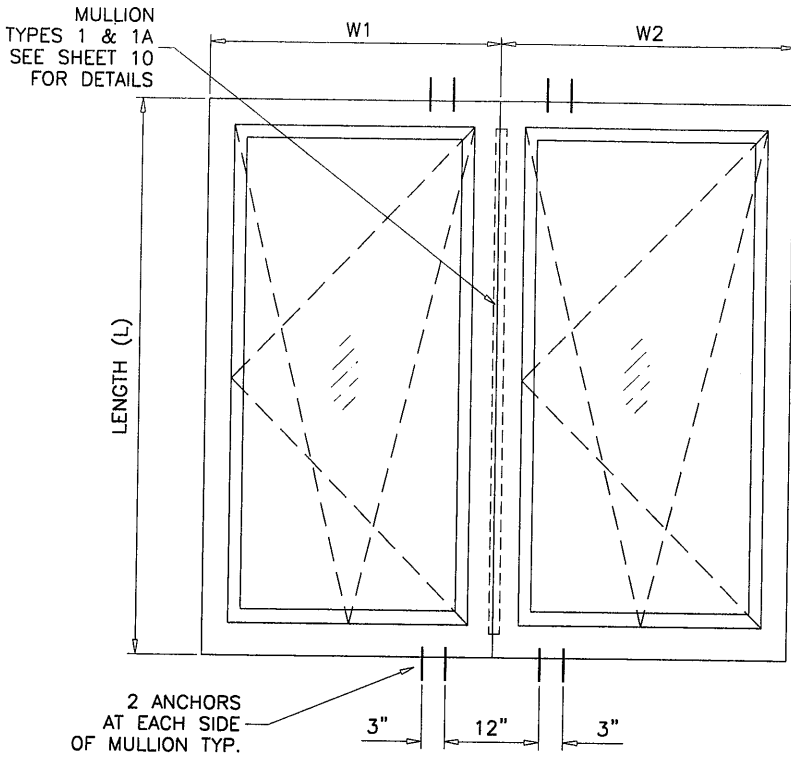
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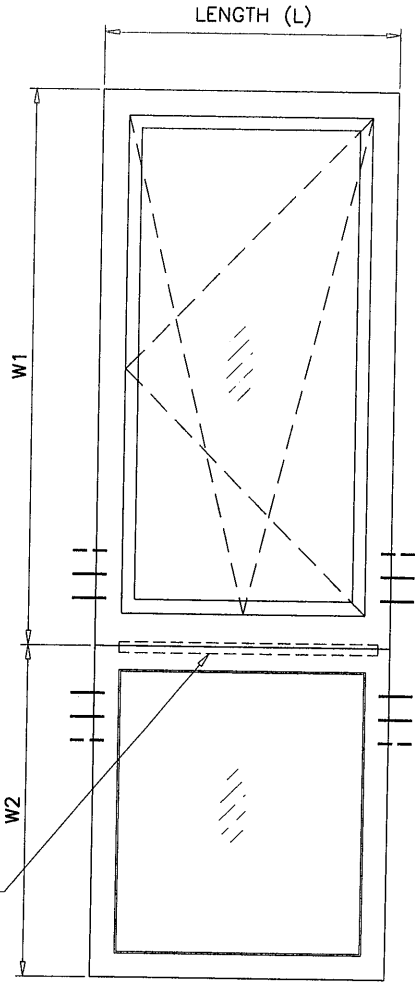
MULLION LOAD CAPACITY - PSF			
WINDOW DIMS. WIDTH (W) LENGTH (L)		MULLION TYPES 1, 1A, 2, 2A, 3 & 3A	
		2 ANCHORS AT EACH SIDE OF MULL	3 ANCHORS AT EACH SIDE OF MULL
		EXT. (+) INT. (-)	EXT. (+) INT. (-)
24"	54"	85.0	85.0
30"		85.0	85.0
36"		85.0	85.0
42"		85.0	85.0
48"		85.0	85.0
54"		85.0	85.0
24"	60"	85.0	85.0
30"		85.0	85.0
36"		85.0	85.0
42"		85.0	85.0
48"		85.0	85.0
24"	66"	85.0	85.0
30"		85.0	85.0
36"		85.0	85.0
42"		85.0	85.0
48"		85.0	85.0
24"	72"	85.0	85.0
30"		85.0	85.0
36"		85.0	85.0
42"		80.9	85.0
48"		85.0	85.0
24"	78"	85.0	85.0
30"		85.0	85.0
36"		80.2	85.0
42"		85.0	85.0
48"		85.0	85.0
24"	84"	85.0	85.0
30"		83.7	85.0
36"		72.9	85.0

NOTES:

1. USE CHART ON THIS SHEET FOR SIDE BY SIDE CONNECTION CAPACITY OF WINDOW MULLION.
2. FOR TILT & TURN WINDOW CAPACITY SEE SHEET 2 OF 10.
3. FOR FIXED WINDOW CAPACITY SEE SEPARATE NOA.
4. LOWER VALUES FROM STEPS 1, 2 OR 3 WILL APPLY TO ENTIRE SYSTEM.



MULLION
TYPES 3 & 3A
SEE SHEET 10
FOR DETAILS



TYPICAL ELEVATIONS
SIDE BY SIDE WINDOWS
SIDE BY SIDE APPLIES TO TWO OR MORE WINDOWS

$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$

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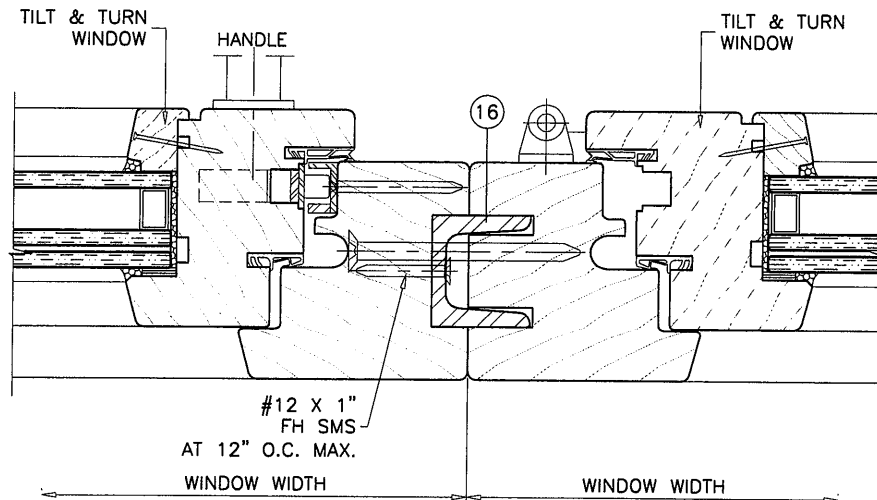
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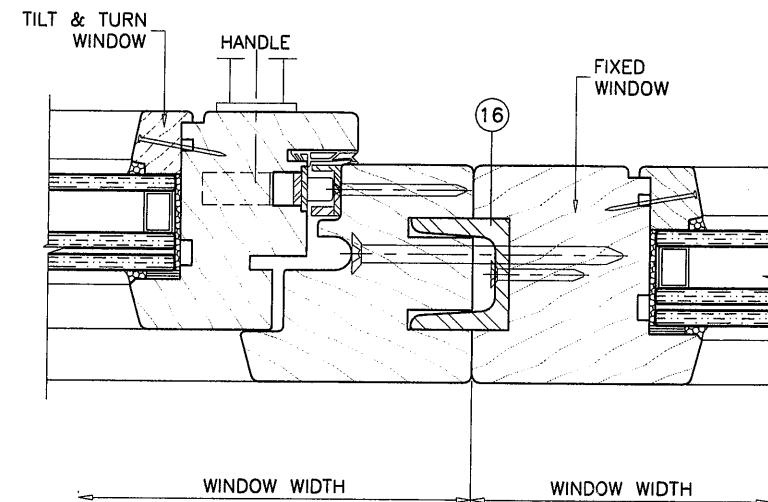
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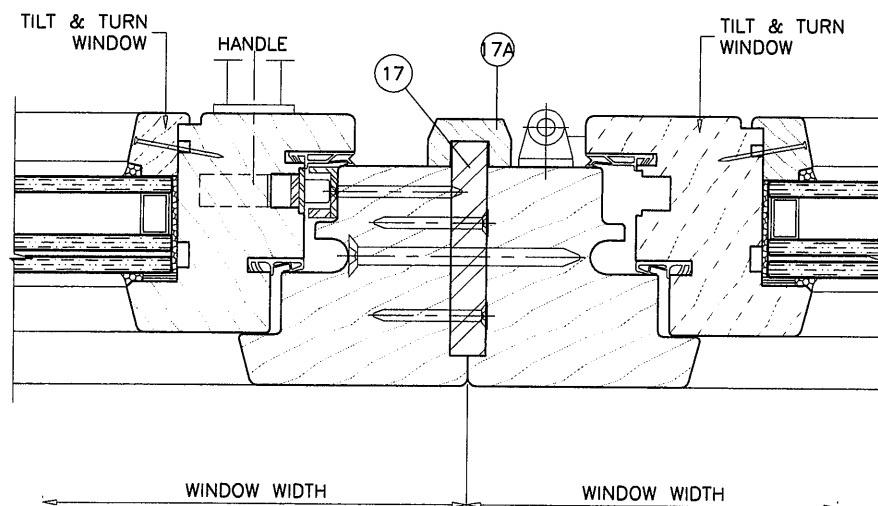
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sheet 9 of 10			



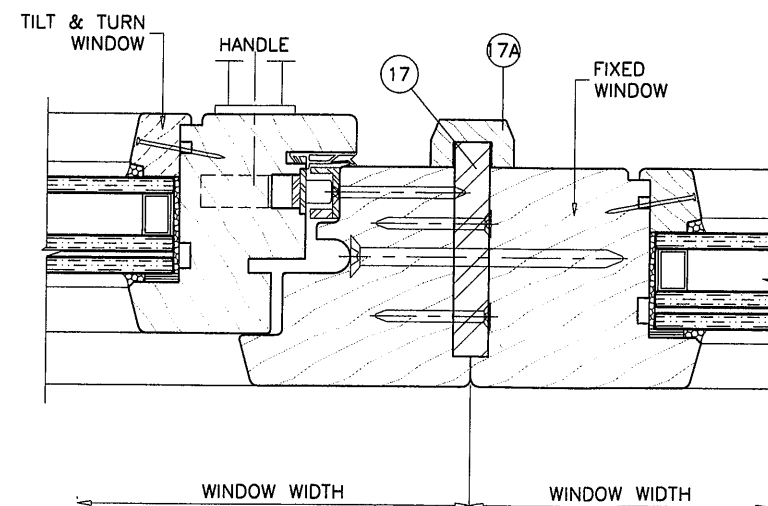
MULLION TYPE 1



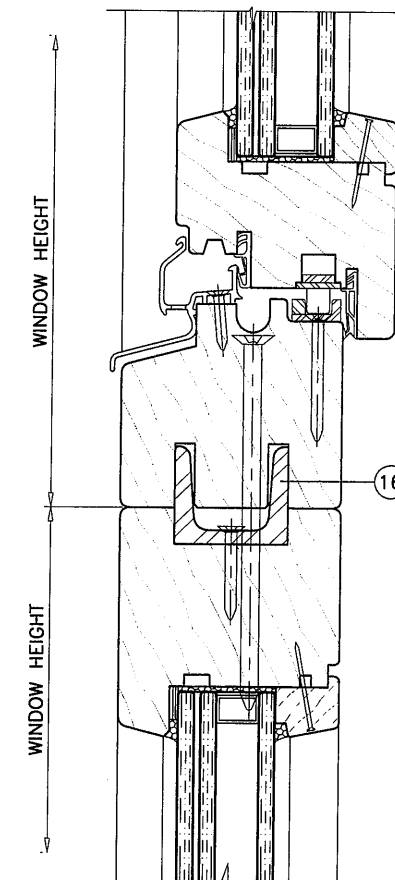
MULLION TYPE 2



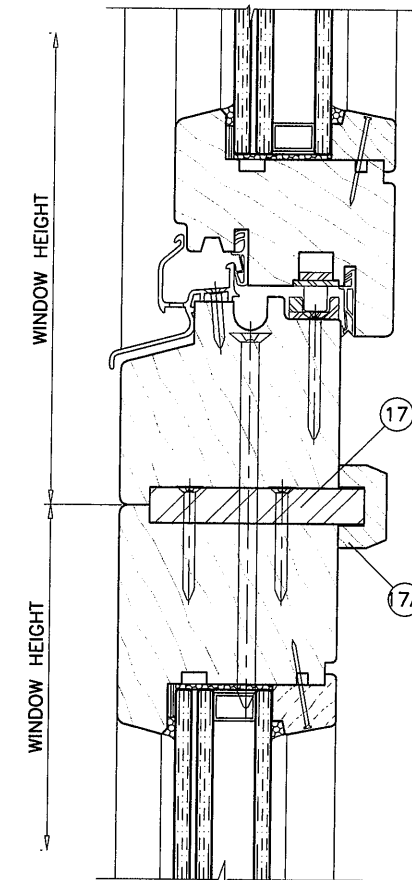
MULLION TYPE 1A



MULLION TYPE 2A



MULLION TYPE 3



MULLION TYPE 3A

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